WHAT IS CLAIMED IS:

i	1. A facing game machine, comprising.
2	a racing track;
3	a traveling field, on which platen dots are provided, extending below
4	the racing track,;
5	a plurality of self-propelled members provided on the traveling field,
6	each self-propelled member including:
7	a first yoke, which constitutes a first linear motor together
8	with the platen dots for propelling the self-propelled member in a first direction
9	on the traveling field;
10	
11	a second yoke, which constitutes a second linear motor
12	together with the platen dots for propelling the self-propelled member in a
13	second direction which is perpendicular to the first direction; and
14	a first magnet provided in an upper portion of the
15	self-propelled member; and
16	a plurality of miniature members, which are provided on the racing
17	track to be raced with each other while being associated with the respective
18	self-propelled members, each miniature member including:
19	front wheels and rear wheels provided on a bottom face
20	thereof for supporting the miniature member on the racing track, the front
21	wheels being provided as caster wheels; and
22	a second magnet provided in a front side of the caster
23	wheels while being magnetically coupled with the first magnet.

- The game machine as set forth in claim 1, wherein ball bearings are provided on the bottom face of the self-propelled member to assist the propelling on the traveling field.
- The game machine as set forth in claim 1, wherein each of the first yoke and the second yoke is formed with three legs provided with coils, to constitute three-phase linear motors.
- 1 4. The game machine as set forth in claim 3, wherein a lower end 2 portion of each leg is split into plural projections each having an identical width 3 with a width of each of the platen dots.
- The game machine as set forth in claim 2, wherein the ball bearings are composed of at least three independent ball bearings.
- 1 6. The game machine as set forth in claim 2, wherein the ball bearings 2 are supported within an annular retainer formed on the bottom face of the 3 self-propelled member to constitute a thrust bearing.
- 7. The game machine as set forth in claim 1, wherein nozzles from which air is brown toward the bottom face of the self-propelled member are formed on the traveling field to form an air bearing layer between the bottom face and the traveling field to support the self-propelled member thereon.

- 1 8. The game machine as set forth in claim 7, wherein a skirt member is
- formed on a peripheral portion of the bottom face of the self-propelled member.
- 1 9. The game machine as set forth in claim 1, wherein the self-propelled
- 2 member includes a compressor for blowing compressed air toward the
- 3 traveling field through nozzles formed on the bottom side thereof, to form an
- 4 air bearing layer between the bottom face and the traveling field to support the
- 5 self-propelled member thereon.
- 1 10. The game machine as set forth in claim 1, wherein the second
- 2 magnet is pivotable about a pivot center provided on the bottom face of the
- 3 miniature member at a front side of the front wheels.
- 1 11. The game machine as set forth in claim 1, wherein the miniature
- 2 member includes a ball bearing provided on the bottom face thereof in the
- 3 vicinity of the second magnet, for supporting the miniature member on the
- 4 racing track.
- 1 12. The game machine as set forth in claim 1, wherein the second
- 2 magnet is rotatable about a rotation center provided on the bottom face of the
- 3 miniature member at a front side of the front wheels.
- 1 13. The gaming machine as set forth in claim 2, wherein:
- 2 the ball bearings are made of metal, and
- a conductive layer is formed on the traveling field for supplying power

4 to the linear motors of the self-propelled member via the ball bearings.